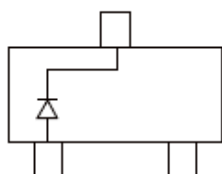


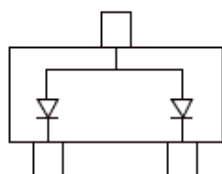
## SWITCHING DIODE

### FEATURES

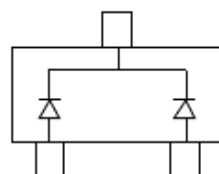
- Low Forward Voltage Drop
- Fast Switching



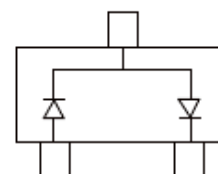
BAT54T Marking: L1



BAT54AT Marking: L2



BAT54CT Marking: L3



BAT54ST Marking: L4

### Maximum Ratings @ $T_A=25^{\circ}\text{C}$

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	30	V
DC Blocking Voltage	$V_R$		
Average Rectified Output Current	$I_O$	200	mA
Power Dissipation	$P_d$	150	mW
Junction temperature	$T_J$	125	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-65-125	$^{\circ}\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30		V
Reverse voltage leakage current	$I_R$	$V_R=25\text{V}$		2	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=0.1\text{mA}$		240	mV
		$I_F=1\text{mA}$		320	
		$I_F=10\text{mA}$		400	
		$I_F=30\text{mA}$		500	
		$I_F=100\text{mA}$		1000	
Total capacitance	$C_T$	$V_R=1\text{V}, f=1\text{MHz}$		10	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10\text{mA}$ , $I_{rr}=0.1I_R, R_L=100\Omega$		5	nS

## Typical Characteristics

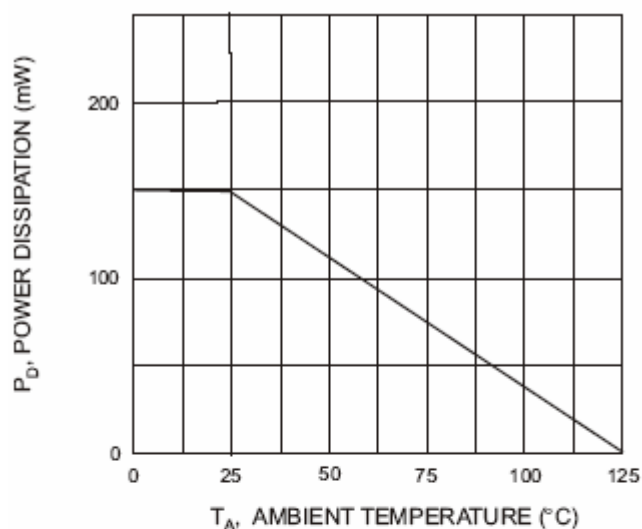


Fig. 1 Power Derating Curve

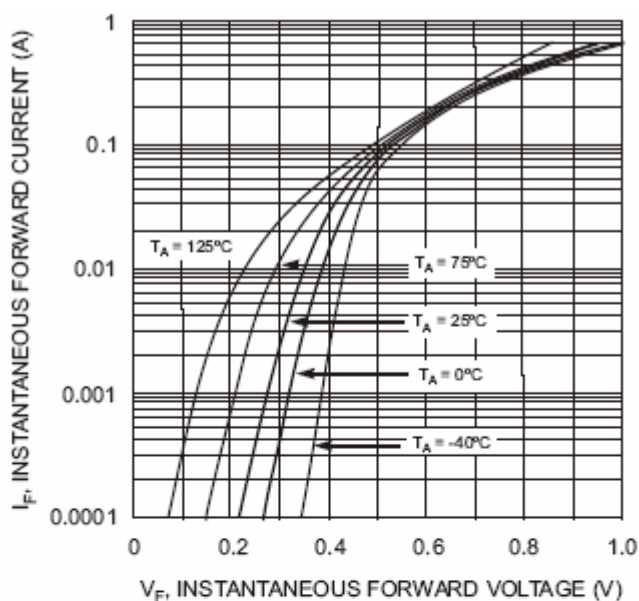


Fig. 2 Forward Characteristics

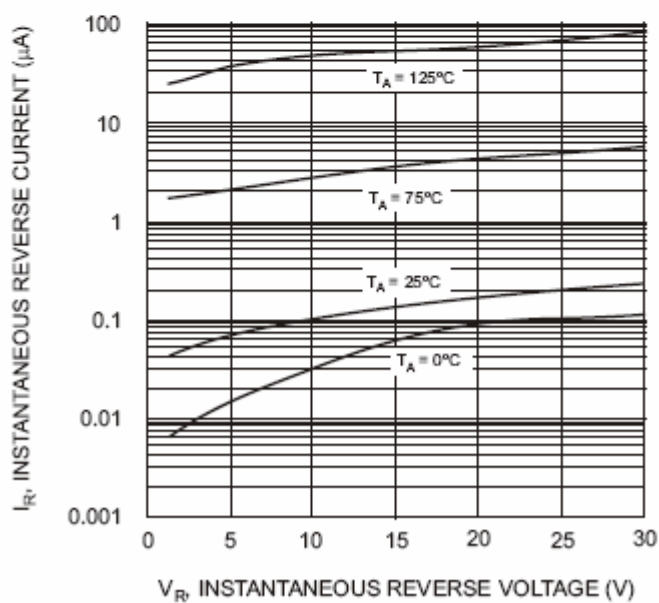


Fig. 3 Typical Reverse Characteristics

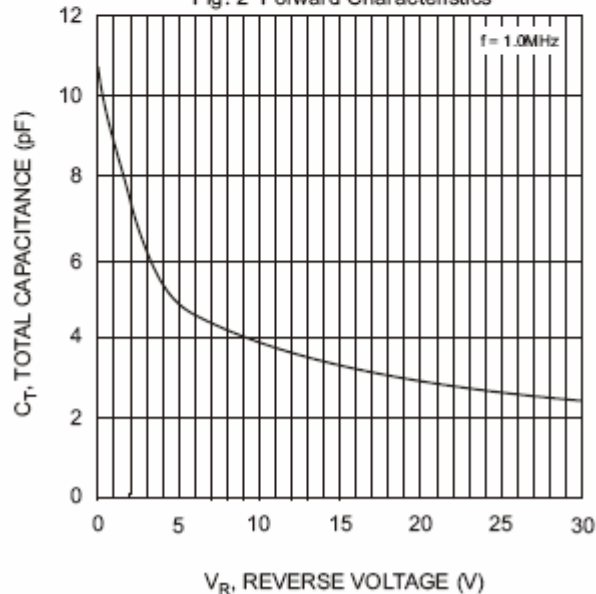


Fig. 4 Typical Capacitance vs. Reverse Voltage